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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/787,125	87,125 02/27/2004		Larry Hillyer	M4065.0239/P239-B	4682	
24998	7590 08/24/2006			EXAM	EXAMINER	
DICKSTE			SCHILLINGER, LAURA M			
1825 EYE STREET NW Washington, DC 20006-5403				ART UNIT	PAPER NUMBER	
3	,			2813		
				DATE MAILED: 08/24/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
. Office Action Summary							
		10/787,125	HILLYER ET AL.				
	onice Action Summary	Examiner	Art Unit				
		Laura M. Schillinger	2813				
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISING OF THE MAILING TH	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timustill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	I. lety filed the mailing date of this communication. O (35 U.S.C. & 133).				
Status							
2a)⊠	1) Responsive to communication(s) filed on 23 March 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5) □ 6) ⊠ 7) □ 8) □	Claim(s) 45-49 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 45-49 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are object to restriction and/or on Papers The specification is objected to by the Examine.	vn from consideration. r election requirement.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) 🔲 Notic	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P					
	Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Election/Restrictions

Applicant's arguments with respect to the restriction requirement are determined to be persuasive; the restriction between claims 45 and 46 is hereby withdrawn.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 45-49 are rejected under 35 U.S.C. 102(b) as being anticipated by Torek et al ('951).

Torek teaches the following claimed limitations as cited below:

45. (Currently Amended) An semiconductor device comprising:

an ammonia-cleaned, an opening provided in an insulating layer, said opening being formed over a polysilicon region and a bottom of said opening being substantially free of polymer residue and silicon rich oxide residue (Col.5, lines: 15-26 and Fig.2 (26)); and a conductor within said opening, said conductor being electrically connected with said polysilicon region (Fig.3 (22).

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polysilicon region (Fig.3 (22).

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46. (Currently Amended) An integrated circuit comprising:

an ammonia-cleaned, High Aspect Ratio opening provided in an insulating layer, said opening being formed over a polysilicon region and a bottom of said opening being substantially free of polymer residue and silicon rich oxide residue (Col.5, lines: 15-26 and Fig.2 (26)); and a conductor within said opening, said conductor being electrically connected with said

- 47. (Previously Presented) An integrated circuit as in claim 46 further comprising a silicide layer between said conductor and said polysilicon region (Fig.4 (34)).
- 48. (Original) An integrated circuit as in claim 46, wherein said integrated circuit is a memory circuit (Col.1, lines: 15-20).
- 49. An integrated circuit as in claim 47 wherein the interface area between said conductor and polysilicon region is free of oxygen contamination (Col.5, lines: 1-10).

Response to Arguments

Applicant's arguments with respect to claims 45-49 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M. Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Laceo mysleely 08/15/06